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1 Abstract

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3 An RF device comprising a plurality of drift tubes,
4 each drift tube having a plurality of gaps defining
5 resonant cavities, is immersed in an axial magnetic field.
6 RF energy is introduced at an input RF port at one of these
7 resonant cavities and collected at an output RF port at a
8 different RF cavity. A plurality of electron beams passes
9 through these drift tubes, and each electron beam has an
10 individual magnetic shaping applied which enables confined
11 beam transport through the drift tubes.